

PRODUCT SHEET

Product Code: HLD9



HLD9 Hearing Loop Driver

Description

Contacta HLD9 is a modular, hearing loop driver for perimeter or phased array configurations, suitable for large area applications such as theaters, conference facilities, sports arenas, concert halls and auditoriums. By using Class D technology, HLD9 manages power extremely efficiently meaning that it emits very little heat from its compact packaging.

HLD9 is part of a new generation of drivers based on cutting edge loop technology aimed at taking the complexity out of loop design and specification, by allowing equipment and configuration to be determined by performance requirements rather than area. This has been achieved by producing drivers that are feature-packed, flexible, efficient and ultra-reliable.

To make the experience of using Contacta HLD9 as simple as possible, the driver includes sophisticated communications capabilities enabling remote set-up and control of levels as well as system interrogation and performance monitoring.

Applications

Suitable for large area applications such as:

- Theaters
- Concert halls
- Places of worship
- Sports arenas
- Conference facilities

Features

- Built-in 90° phase shift
- Flexible configuration
- Ultra efficient power utilization
- Sleep mode
- High frequency compensation
- Continuous self-testing
- Accurate, lockable controls (front panel mounted)
- Input and drive level indication
- Intelligent protection system
- Flexible audio inputs
- Interface to external communication devices

Area Coverage

Specifying loop equipment and configuration by area can be misleading and lead to poor performing loop systems. Contacta is spearheading a new, simpler approach to loop system design and specification by producing a range of drivers that are the most sophisticated and efficient on the market, allowing sufficient headroom to cope with any situation providing a thorough survey of the facility has been carried out and test measurements taken.

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Technical Data

Inputs	Input 1 (Microphone)	Balanced XLR with switchable phantom power or ¼" TRS jack for electret microphone with 3.3VDC power via 680Ω load
	Input 2 (Line)	Balanced XLR or ¼" TRS jack to ohmically isolated input
Loop output	Loop connection	4-pole Speakon connector
	Loop drive current	10A RMS compliance current @ 1Khz sine wave
	Loop drive voltage	36V RMS compliance voltage
Expansion	Contacta interconnect	Input or output to or from additional Contacta systems 90° phase shift selectable
Status	External LEDs or relays	2 x constant current drive @ 20mA, 22V max
Feature	External monitor & control	Contacta communications processor interface
Audio	Frequency response	100 Hz – 5kHz (±3dB)
	Distortion	Better than -40dB, inputs at nominal level
Automatic Gain Control	Digitally controlled	Dynamic range: 40dB typical Attack time: 33 milliseconds Release time: 3.6dB per second
Controls	Microphone level	Off, then to maximum in 50 1dB increments
	Line level	Off, then to maximum in 50 1dB increments
	Loop current	Off, then to maximum in 63 1dB increments
Displays	Microphone level	8 level bar graph with peak hold, 6dB steps
	Line level	8 level bar graph with peak hold, 6dB steps
	Output drive level	8 level bar graph with peak hold, 0.6A steps
	Other indications	LEDs for all setup and status indications

Physical Data

Dimensions	Height – 2.48" (2U 19" rack mount) Width – 7.87" (19" half rack) Depth – 10.47"
Weight	5.51lbs (boxed incl. internal power supply unit)

Power – Maximum power required 400 Watts

Standards

- UL compliant
- FCC class "B" EMC (emissions)
- IEC 60118-4:2006
(will be met in correct installations)
- BS EN 55103-1:2009
(EMC emissions and immunity)

Accessories

- Rack mount brackets
 - RX-20 loop listener
 - FSM field strength meter
 - Flat copper tape
 - Concrete burial cable
 - Remote level control RMK
 - Speciality installation tracks
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